

**ENGINEERING CHANGE NOTICE**  
**DART AEROSPACE LTD**

MPP

Date:	16.06.15	Job No.:	ENG7105JUNE	ADR Yes/No:	N	ADR Date:	N/A	ECN #:	16- 532
Product No.:	D412-775			Created By:	<i>BSA</i>	Approved By:	<i>CM</i>		
Product Name:	PROTECTIVE TRIM KITS			Checked By:	<i>DL</i>				

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	N	DM	
Production Manager / Coord.	Y	MP / MF	
Purchasing Manager / Purchasing Coord.	N	LL / CL	
Production Engineering Coord.	Y	DD / JLM	
Production Engineering Coord.	N	DL	
Customer Order Processing	N	SL / BG	

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
DQA / QA Coord.	Y	PS / ED	
QC Coordinator	Y	PD	
Customer Support	Y	SW / LM	
Customer Technical Support	Y	MB / HS	<i>16-06-16</i>
Marketing	Y	SL / WR	
Dist. Management Coord.	Y	HM	

**Reason for Change:**

ADDITION OF INSTALLATION OPTION AND REVISION OF D3608-1. REASON: TO IMPROVE INSTALLATION PROCESS. CASE 9289.

**Documents Affected:**

Release IIN-D412-775 Rev. B, ICA-D412-775 Rev. 1, and D3608 Rev. D

**IF APPLICABLE:** NCR: \_\_\_\_\_ PAR: 16-502 CAR: \_\_\_\_\_ CIR: \_\_\_\_\_ URF: 16-532

**PAPERWORK UPDATE**  **PARTS MUST COMPLY**  **PREVIOUS PARTS SATISFACTORY**

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	Y	MB	PROVIDE REVISED IIN/ICA TO BELL MIRABEL	
2	Notify Eurocopter France	N			
3	Notify Augusta Westland	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	Y	MB	URF16-532: D3608-1 UNDER REVIEW	<i>16-06-16</i>
6	Update Master Document List (MDL)	Y	MB	MDL-D412-775 REV. H	
7	Update Document Record (DR)	N			
8	Update Product Compatability Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	N			
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	Y	KJ		<i>16-06-16</i>
12	Update Product Specification Files (Bluefiles)	Y	KJ		<i>16-06-16</i>
13	Update Approved/Preliminary Dwg PDF Files	Y	KJ		<i>16-06-16</i>
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	N			
17	Update / Verify Airworthiness Release Certificate Database	N			
18	Create / Update Change Record Form / Item Card Database	N			
19	Create / Update Packaging Process Plan (PPP)	N			
20	Red Decals required on Packaging Process Plan (PPP)?	N			
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	Y	KJ		<i>16-06-16</i>
23	Update D-Part / M-Drawing / DS1 / DEO Master Binders	Y	KJ		<i>16-06-16</i>
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

**Description / Action:**

- UPDATE ALL W/Os IN WIP WITH RELEASED D3608 REV. D
- UPDATE ALL KITS IN STOCK/WIP WITH D3608-1 TO REV. D. REPLACE IIN/ICA OF KITS IN STOCK WITH IIN-D412-775 REV. B AND ICA-D412-775 REV. 1

*D412-775-013 +  
46TK added tag for "Do not ship for Bell"  
16051 Production decided to use old stock and sell  
as is. Putting a note on boxes to not sell to  
Bell to  
update our current stock  
MF 16-6-21*

MF 16-6-21

ECN Verified & Complete: \_\_\_\_\_

Date: \_\_\_\_\_

## List Lots

Tuesday, June 21, 2016 4:02:08 PM

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Criteria : Item ID: D412-775-013 All Locations All Warehouses All Quantity

Item ID Item Name	Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt Lot Code	Type Code	Comments
D412-775-013 Step Protective Trim	Main Warehouse FG028	144689	6/20/2016	4.0000	QC21	CHG003	

Total: 4.0000

OLD rev but ok to ship to all customers except Bell  
# 148054 x 14 - w/o created to liquidate old stock.

DQA:

Date:



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

Work Order update only 

Work Order:	<b>DISPOSITION</b>			<b>AGAINST DEPARTMENT/PROCESS</b>					
Part No.	Rework <input type="checkbox"/>	Scrap <input type="checkbox"/>	Use-as-is <input type="checkbox"/>	Skid-tube <input type="checkbox"/>	Cross tube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>		
NCR No.	Suspected <input type="checkbox"/>	Unapproved <input type="checkbox"/>		Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coor. <input type="checkbox"/>	Quality <input type="checkbox"/>		
Date :	Step #:	QTY Effective :				Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Supplier <input type="checkbox"/>	MRB (QSI042) Approval
<b>Description Work Order Deviation</b>				<b>Disposition</b>					Completed By
									Lead hand / Supervisor Approval Verification
									QC / QA Coordinator Approval
<b>Root Cause</b>		<b>FAULT CATEGORY</b>							
Environment <input type="checkbox"/>	<input type="checkbox"/> No Re-verification	<input type="checkbox"/> Pressure/Forced	<input type="checkbox"/> Temperature/Cure	<input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Positioned Wrong				
Design <input type="checkbox"/>	<input type="checkbox"/> Operator	<input type="checkbox"/> Bending	<input type="checkbox"/> Set-up	<input type="checkbox"/> Folio/Program	<input type="checkbox"/> Outside Dimensions				
Doc/Data <input type="checkbox"/>	<input type="checkbox"/> Offset/Setup	<input type="checkbox"/> Centre Not Concentric	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Grain	<input type="checkbox"/> Over/Under tolerance				
Equip/Tooling <input type="checkbox"/>	<input type="checkbox"/> Supplier	<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damage/Defect	<input type="checkbox"/> Weld	<input type="checkbox"/> Part Incorrect				
Handling/Pre <input type="checkbox"/>	<input type="checkbox"/> Training	<input type="checkbox"/> Crimp/Kink/Ripple/Wave	<input type="checkbox"/> Inspection Incomplete/Unqualified	<input type="checkbox"/> Wrong Stock Pulled	<input type="checkbox"/> Part Lost/Missing				
Material <input type="checkbox"/>	<input type="checkbox"/> Use for Testing	<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Part Moved				
Internal Transport <input type="checkbox"/>	<input type="checkbox"/> Poor Information	<input type="checkbox"/> Crushing	<input type="checkbox"/> Countersink	<input type="checkbox"/> Off-set	<input type="checkbox"/> Drawing				
Tribal Knowledge <input type="checkbox"/>	<input type="checkbox"/> Rushing	<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Mislabeled	<input type="checkbox"/> Finish				
LOA <input type="checkbox"/>	<input type="checkbox"/> Product Improvement	<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Instructions Incomplete/Unclear	<input type="checkbox"/> Fit/Function	<input type="checkbox"/> Misread				
Substation <input type="checkbox"/>	<input type="checkbox"/> Process Improvement	<input type="checkbox"/> Marks/Chatter	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Misaligned/off center	<input type="checkbox"/> Turning Sequence				
Past Expiry Date <input type="checkbox"/>	<input type="checkbox"/> Manufacturing Process		OTHER :						
Misidentified <input type="checkbox"/>	<input type="checkbox"/> Past Due								